

Message Text

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ORIGIN DOE-15

INFO OCT-01 EUR-12 ISO-00 SOE-02 OES-07 IO-14 ACDA-12
NRC-07 CIAE-00 INR-10 L-03 NSAE-00 NSC-05 EB-08
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J. MENZEL/ACDA
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FM SECSTATE WASHDC
TO AMEMBASSY VIENNA PRIORITY

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USIAEA ALSO FOR EMBASSY

E.O. 11652: N/A

TAGS: PARM, TECH, IAEA

SUBJECT: DEVELOPMENT OF NDA INSTRUMENTATION AND
TECHNIQUES FOR IAEA SAFEGUARDS

L. U.S. TECHNICAL STAFF HAS REPORTED ON IAEA SAFEGUARDS
MEETINGS ON NDA DURING MARCH AND MAY 1978. VON BAECKMANN
AND OTHERS FROM OPERATIONS RECOMMEND THAT U.S. PROGRAM OF
TECHNICAL ASSISTANCE TO IAEA SAFEGUARDS (POTAS) BECOME
MORE INVOLVED IN HELPING THE AGENCY TO IMPLEMENT
APPLICATIONS OF NONDESTRUCTIVE ASSAY. POTAS PROVIDED JOHN
FOLEY TO DO THIS UNDER TASK A.3 BUT AFTER HIS ARRIVAL,
FOLEY WAS DIRECTED TO ANOTHER KIND OF WORK CONSIDERED BY
DIVISION OF DEVELOPMENT AND TECHNICAL SUPPORT TO HAVE
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HIGHER PRIORITY AT THE TIME. ISPO IS NOW SEEKING A POSSIBLE
CANDIDATE TO HELP THE AGENCY IMPLEMENT APPLICATIONS OF
NONDESTRUCTIVE ASSAY (TASK A.30).

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2. MISSION IS REQUESTED TO RECONFIRM IAEA NEED AS DESCRIBED
BELOW. MISSION IS ALSO REQUESTED TO EXPLORE WILLINGNESS
OF DEPARTMENT OF SAFEGUARDS TO COMMIT SOME PERMANENT STAFF

TIME TO EFFORT. U.S. TECHNICAL STAFF REPORT THAT THERE IS NEED TO ESTABLISH HOW INSTRUMENTS ACTUALLY ARE BEING, OR WILL BE USED, MEASUREMENTS MADE AND DATA REDUCED DURING INSPECTIONS, INCLUDING ENOUGH DETAIL SO EXPERTS CAN IDENTIFY SOURCES OF MEASUREMENT ERROR AND SPECIFIC REQUIREMENTS FOR

WR N PROCEDURES AND TRAINING. SINCE INSPECTORS ARE CALLED ON TO USE NDA EQUIPMENT UNDER TRYING, AND SOMETIMES UNFAMILIAR CIRCUMSTANCES, CONSIDERATION CAN BE GIVEN TO U.S. PREPARATION OF VERY COMPLETE WRITTEN PROCEDURES FOR INSTRUMENTS AND TECHNIQUES. SINCE THE AGENCY IS ALSO WILLING TO CONSIDER THE USE OF SOPHISTICATED INSTRUMENTATION INSTALLED IN-PLANT, THERE WOULD BE A CORRESPONDING NEED FOR COMPLETION OF DETAILED TEST AND EVALUATION PLANS PRIOR TO DELIVERY OF SUCH EQUIPMENT. FOR ALL INSTRUMENTS U.S. DELIVERS, FOLLOW-ON ACTIVITIES HAVE BEEN PROGRAMMED IN ATTEMPT TO CORRECT MEASUREMENT TECHNIQUES WHICH ARE TRANSFERED TO IAEA. THIS INCLUDES THE SIMULATION IN U.S. LABORATORIES AND OTHER FACILITIES OF MEASUREMENT ACTIVITIES BY IAEA INSPECTORS. HOWEVER, NO FOLLOW-UP COMMENTS FROM ANY INSPECTOR FIELD EXPERIENCE HAVE BEEN RECEIVED.

3. U.S. PRIMARY CONCERN IS TO IMPROVE IAEA SAFEGUARDS EFFECTIVENESS. INSPECTOR PERFORMANCE CONSIDERED OF MAJOR IMPORTANCE. U.S. DESIRES TO ASSIST IN CORRECTING ANY UNCLASSIFIED

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IDENTIFIED AREAS OF WEAKNESS.

4. WILLINGNESS OF SAFEGUARDS TO COMMIT SOME PERMANENT STAFF TIME TO EFFORT OF IDENTIFYING SPECIFIC DIFFICULTIES EXPERIENCED BY INSPECTORS IS ESSENTIAL TO SUCCESS OF SUCH AN UNDERTAKING. SINCE COST-FREE EXPERTS CAN NOT ACCOMPANY INSPECTORS INTO FIELD, TECHNICALLY QUALIFIED MEMBERS OF AGENCY STAFF MUST PROVIDE INFORMATION IDENTIFIED ABOVE. COST-FREE EXPERT UNDER TASK A-30 CAN COORDINATE EFFORT OF IAEA PERMANENT STAFF TO PROVIDE THIS INFORMATION.

5. DOE AND ISPO ARE TO REVIEW ACTIONS NEEDED FOR PREPARATION OF VERY COMPLETE PROCEDURES FOR NDA INSTRUMENTS AND TECHNIQUES. MISSION SHOULD CONTACT DEVELOPMENT AND OPERATIONS DIVISIONS AND SEEK TO IDENTIFY MAJOR AND PRESSING NEEDS WARRANTING EARLY OR IMMEDIATE ACTION. REQUEST AVAILABLE INFORMATION BE CABLED BY COB WED. JUNE 14 FOR USE AS INPUT FOR MEETING AT DOE/GERMANTOWN, NEXT DAY ON SUBJECT MATTER. VANCE

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